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SEQUENCE LISTING

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The Government of the United States of America
as represented by The Secretary of the
Department of Health and Human Services

<120> Recombinant Immunotoxin Directed Against the HIV-1
gp120 Envelope Glycoprotein

<130> 015280-356100US

<140> US 09/673,707

<141> 2001-01-11

<150> WO PCT/US99/12909

<151> 1999-06-08

<150> US 60/088,860

<151> 1998-06-11

<160> 13

<170> PatentIn Ver. 2.0

<210> 1

<211> 251

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:3B3(Fv) amino
acid sequence

<400> 1

Met	Gln	Val	Gln	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly
1				5					10					15	
Ala	Ser	Val	Lys	Val	Ser	Cys	Gln	Ala	Ser	Gly	Tyr	Arg	Phe	Ser	Asn
			20					25					30		
Phe	Thr	Val	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Arg	Phe	Glu	Trp
			35				40					45			
Met	Gly	Trp	Ile	Asn	Pro	Tyr	Asn	Gly	Asn	Lys	Glu	Phe	Ser	Ala	Lys
	50					55					60				
Phe	Gln	Asp	Arg	Val	Thr	Phe	Thr	Ala	Asp	Thr	Ser	Ala	Asn	Thr	Ala
	65				70				75					80	
Tyr	Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Ala	Asp	Thr	Ala	Val	Tyr	Tyr
				85					90					95	
Cys	Ala	Arg	Val	Gly	Glu	Trp	Gly	Trp	Asp	Asp	Ser	Pro	Gln	Asp	Asn
			100					105						110	

Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Ile Val Ser Ser
 115 120 125
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp
 130 135 140
 Ile Glu Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu
 145 150 155 160
 Arg Ala Thr Phe Ser Cys Arg Ser Ser His Ser Ile Arg Ser Arg Arg
 165 170 175
 Val Ala Trp Tyr Gln His Lys Pro Gly Gln Ala Pro Arg Leu Val Ile
 180 185 190
 His Gly Val Ser Asn Arg Ala Ser Gly Ile Ser Asp Arg Phe Ser Gly
 195 200 205
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Arg Val Glu Pro
 210 215 220
 Glu Asp Phe Ala Leu Tyr Tyr Cys Gln Val Tyr Gly Ala Ser Ser Tyr
 225 230 235 240
 Thr Phe Gly Gln Gly Thr Lys Leu Glu Arg Lys
 245 250

<210> 2
 <211> 753
 <212> DNA
 <213> Artificial Sequence

<220>
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 Sequence:3B3V-H(Gly-4Ser)-3V-L nucleotide sequence

<220>
 <221> CDS
 <222> (1)..(753)

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 gtttcttggtc aggcttctgg atacagattc agtaacttca cgggccactg ggtgcgccag 120
 gcccccgagc agaggtttga gtggatggga tggatcaatc cttacaacgg aaacaaagaa 180
 ttttcagcga agttccagga cagagtcacc ttaccgcgg acacatccgc gaacacagcc 240
 tacatggagt tgaggagcct cagatctgca gacacggctg tttattattg tgcgagagtg 300
 ggggagtggg gttgggatga ttctccccag gacaattatt atatggacgt ctggggcaaa 360
 gggaccacgg tcatcgtctc ctcaggcgga ggcggatcag gtggtggcgg atctggaggt 420
 ggcggaagcg acatcgagct cacgcagtct ccaggcacc tgtctctgtc tccaggggaa 480
 agagccacct tctcctgtag gtccagtcac agcattcgca gccgccgct agcctggtac 540
 cagcacaac ctggccaggc tccaaggctg gtcatacatg gtgtttccaa tagggcctct 600
 ggcattctcag acaggttcag cggcagtggg tctgggacag acttcactct caccatcacc 660
 agagtggagc ctgaagactt tgcactgtac tactgtcagg tctatggtgc ctctctgtac 720
 acttttggcc aggggaccaa actggagagg aaa 753

<210> 3
 <211> 15
 <212> PRT
 <213> Artificial Sequence

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<223> Description of Artificial Sequence:linker

<400> 3

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 4

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:C3 connector
peptide

<400> 4

Ser Gly Gly Pro Glu Gly Gly Ser
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<210> 5

<211> 81

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:T128 primer

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aaacatatgc aggttcagct cgagcagtct ggggctgagg tgaagaagcc tggggcctca 60
gtgaagggtt cttgtcaggc t 81

<210> 6

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:T129 primer

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gccccagacg tc 72

<210> 7

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:T-144 primer

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tcagggtggtg gcggatctgg aggtggcgga agcgacatcg agctcacgca gtctccaggc 60
accctgtctc tgtctcca 78

<210> 8
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:T131 primer

<400> 8
ggaagctttc ctctccagtt tgggtcccctg gccaaaagtg tacgaggagg caccata 57

<210> 9
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:carboxy
terminal sequence of Pseudomonas exotoxin (PE)
endoplasmic retention sequence

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Lys Asp Glu Leu
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<210> 10
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:carboxy
terminal sequence of Pseudomonas exotoxin (PE)
endoplasmic retention sequence

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Arg Glu Asp Leu
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<210> 11
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:native carboxy
terminal sequence of Pseudomonas exotoxin (PE)
endoplasmic retention sequence

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<211> 5
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:linking peptide

<400> 12

Gly Gly Gly Gly Ser
1 5

<210> 13

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:carboxy
terminal sequence of Pseudomonas exotoxin (PE)
endoplasmic retention sequence

<400> 13

Arg Asp Glu Leu
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